

US008542815B2

(12) United States Patent

Perreault et al.

(54) PRODUCING ROUTING MESSAGES FOR VOICE OVER IP COMMUNICATIONS

(75) Inventors: Clay Perreault, Panama City (PA);

Steve Nicholson, Hamilton (NZ); Rod Thomson, North Vancouver (CA); Johan Emil Viktor Bjorsell, Vancouver (CA); Fuad Arafa, Vancouver (CA)

(73) Assignee: Digifonica (International) Limited,

Vancouver (CA)

(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 853 days.

(21) Appl. No.: 12/513,147

(22) PCT Filed: Nov. 1, 2007

(86) PCT No.: PCT/CA2007/001956

§ 371 (c)(1),

(2), (4) Date: Mar. 1, 2010

(87) PCT Pub. No.: WO2008/052340

PCT Pub. Date: May 8, 2008

(65) **Prior Publication Data**

US 2010/0150328 A1 Jun. 17, 2010

Related U.S. Application Data

- (60) Provisional application No. 60/856,212, filed on Nov. 2, 2006.
- (51) **Int. Cl. H04M** 7/**00** (2006.01)

(10) Patent No.: US 8

US 8,542,815 B2

(45) **Date of Patent:**

Sep. 24, 2013

58) Field of Classification Search

(56) References Cited

U.S. PATENT DOCUMENTS

4,916,491 A 4/1990 Katoh

4,992,971 A * 2/1991 Hayashi 717/140

(Continued)

FOREIGN PATENT DOCUMENTS

2249668 4/1999 1 389 862 A1 2/2004

CA EP

(Continued)

OTHER PUBLICATIONS

Supplementary European Search Report for European Application No. 07816106 dated Jun. 18, 2012.

(Continued)

Primary Examiner — Simon Sing

(74) Attorney, Agent, or Firm — Knobbe Martens Olson & Bear LLP

(57) ABSTRACT

A process and apparatus to facilitate communication between callers and callees in a system comprising a plurality of nodes with which callers and callees are associated is disclosed. In response to initiation of a call by a calling subscriber, a caller identifier and a callee identifier are received. Call classification criteria associated with the caller identifier are used to classify the call as a public network call or a private network call. A routing message identifying an address, on the private network, associated with the callee is produced when the call is classified as a private network call and a routing message identifying a gateway to the public network is produced when the call is classified as a public network call.

111 Claims, 32 Drawing Sheets

